

PROJECT DESCRIPTION

GENERAL

THIS PORTION OF THE PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 924 (EMMORTON ROAD) AND ABINGDON ROAD/SINGER ROAD IN HARFORD COUNTY, MARYLAND. MD 924 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION OPERATION WILL REMAIN THE SAME.

CONTROLLER REQUIREMENTS

THE EXISTING POLE MOUNTED CABINET AND CONTROLLER WILL BE USED. THE CONTROLLER EQUIPMENT SHALL BE RETROFITTED TO OPERATE VIDEO DETECTION EQUIPMENT.

MAINTENANCE OF TRAFFIC

THE FOLLOWING TRAFFIC CONTROL STANDARDS SHALL BE REFERENCED FOR THE PROJECT. ADDITIONAL TRAFFIC CONTROL STANDARDS MAY BE USED AS DIRECTED BY THE ENGINEER.

STANDARD NO. MD-104.02-01 (SHOULDER WORK)

STANDARD NO. MD-104.02-13 (INTERSECTION FLAGGING)

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

MS. ERIN KUHN
ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (410) 321-2781/2785

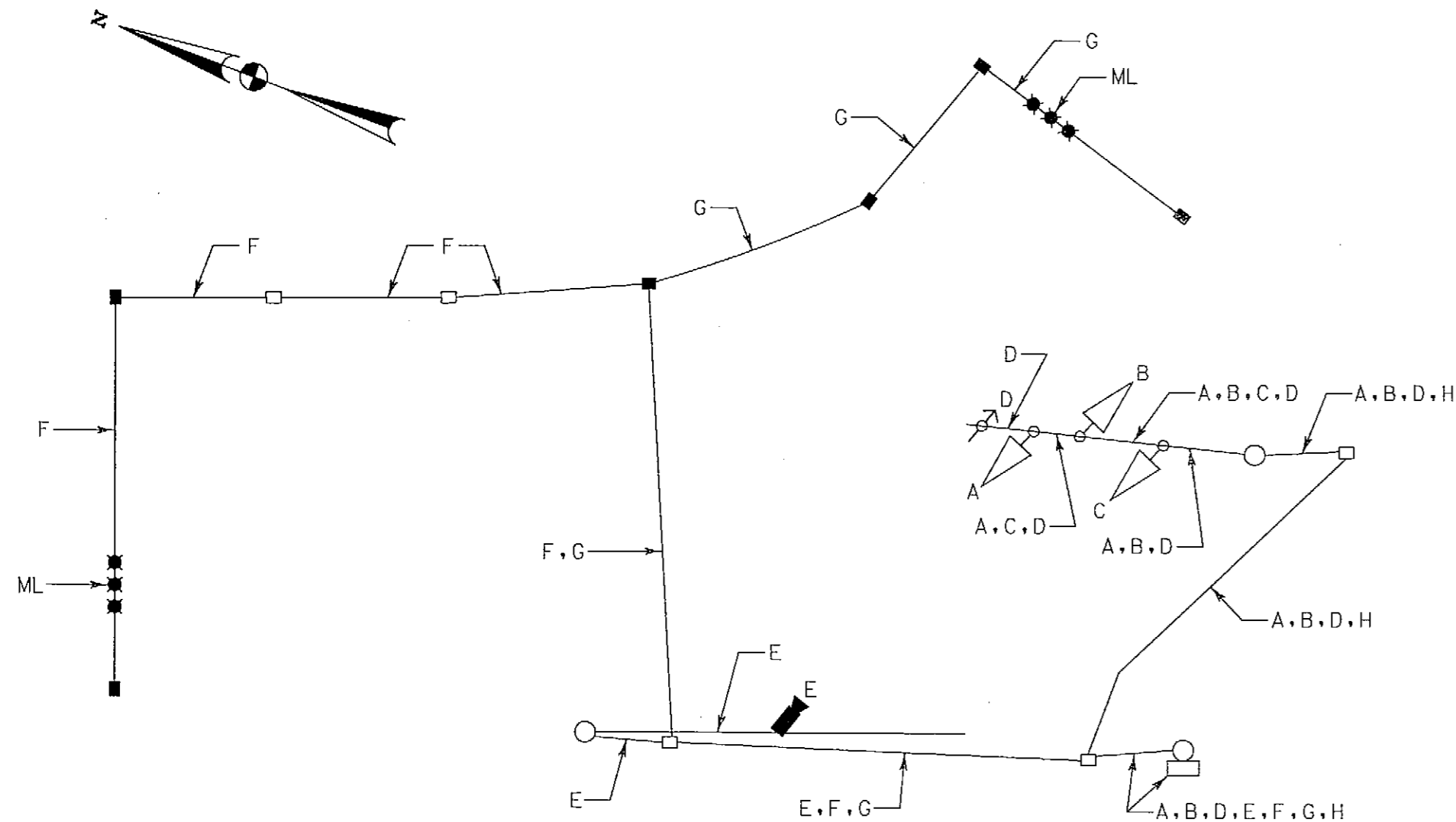
MR. ANDRE FUTRELL
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (410) 321-2761

MR. MIKE PASQUARIELLO
DISTRICT UTILITY ENGINEER
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MR. ROBERT SYNDER
ASSISTANT CHIEF, TRAFFIC OPERATIONS DIVISION
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MR. RICHARD L. DAFF, SR.
CHIEF, TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630

WIRING DIAGRAM



WIRING KEY

- A } 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
B }
C } 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
D } 4-CONDUCTOR OPTICOM DETECTOR CABLE (NO. 14 A.W.G.)
E } VIDEO CAMERA DETECTION LEAD-IN CABLE
F } MICROLOOP PROBE LEAD-IN
G }
H } STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
ML - MICROLOOP PROBE SET

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

ITEM NO.	QUANTITY	DESCRIPTION
9086	1 EACH	VIDEO INTERFACE EQUIPMENT: 1-8 CAMERAS

EQUIPMENT LIST "C"

C. EQUIPMENT TO BE REMOVED AND RETURNED TO SHA

ALL REMOVED SIGNAL MATERIALS SHALL BECOME PROPERTY OF THE CONTRACTOR

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EACH	MAINTENANCE OF TRAFFIC PER ASSIGNMENT
6002	20 S.F.	5 INCH CONCRETE SIDEWALK
8017	1 EACH	REM & DISPOSE MAT & EQUIP PER ASSIGN
8023	205 L.F.	4 CONDUCTOR OPTICOM DETECTOR CABLE
8026	105 L.F.	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT-BORED
8027	200 L.F.	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT-SLOTTED
8028	330 L.F.	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
8034	125 L.F.	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8043	2 EACH	NONINVASIVE DETECTOR, 500 FOOT LEAD IN CABLE
8045	6 EACH	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8048	1 EACH	VIDEO DETECTION CAMERA & CABLE UP TO 500 FT
8058	25 L.F.	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
8059	390 L.F.	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12
PHASE 1 AND 5	R	R	R	R	R	R	R	R	R	R	R	R
1 AND 5 CHANGE	PHASE 1 + 5 MAY CHANGE TO PHASE 1 + 6, PHASE 2 + 5 OR PHASE 2 + 6											
PHASE 1 AND 6	R	R	R	R	R	R	R	R	R	R	R	R
1 AND 6 CHANGE	R	R	R	R	R	R	R	R	R	R	R	R
PHASE 2 AND 5	R	R	R	R	R	R	R	R	R	R	R	R
2 AND 5 CHANGE	R	R	R	R	R	R	R	R	R	R	R	R
PHASE 2 AND 6	R	R	R	R	R	R	R	R	R	R	R	R
2 AND 6 CHANGE	R	R	R	R	R	R	R	R	R	R	R	R
PHASE 3 AND 7	R	R	R	R	R	R	R	R	R	R	R	R
3 AND 7 CHANGE	PHASE 3 + 7 MAY CHANGE TO PHASE 3 + 8, PHASE 4 + 7 OR PHASE 4 + 8											
PHASE 3 AND 8	R	R	R	R	R	R	R	R	R	R	R	R
3 AND 8 CHANGE	R	R	R	R	R	R	R	R	R	R	R	R
PHASE 4 AND 7	R	R	R	R	R	R	R	R	R	R	R	R
4 AND 7 CHANGE	R	R	R	R	R	R	R	R	R	R	R	R
PHASE 4 AND 8	R	R	R	R	R	R	R	R	R	R	R	R
4 AND 8 CHANGE	R	R	R	R	R	R	R	R	R	R	R	R
FLASHING OPERATION	FLY	FLY	FLY	FLY	FLY	FLY	FLY	FLY	FLY	FLY	FLY	FLY

EMERGENCY PRE-EMPTION

EMERGENCY PRE-EMPTION PHASE 4	R	R	R	R	R	R	R	R	R	R	R	R
PRE-EMPTION CLEARANCE	R	R	R	R	R	R	R	R	R	R	R	R
PHASE 2 AND 6 NORMAL OPERATION	G	G	G	G	G	G	G	G	G	G	G	G

SHA No: BW633M83
MD 924 @ Abingdon Rd/Singer



STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MD 924 (Emmorton Road) and Abingdon Road/Singer Road
Abingdon, MD

GENERAL INFORMATION SHEET

SCALE	NONE	ADVERTISED DATE	12/01/2009	CONTRACT NO.	XX4485185
DESIGNED BY	S. Bloss	COUNTY	Harford		
DRAWN BY	S. Bloss	LOGMILE	12092401.01		
CHECKED BY	N. Leary	TIMS NO.	K006		
F.A.P. NO.	SEE TITLE SHEET	TOD NO.			
TS NO. 1904 G	DRAWING TSP - 2	OF 2	SHEET NO.	2	OF 2



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